Thermaflex Glue

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.01.2023 Version number 16

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Thermaflex Glue

1.2. Relevant identified uses of the substance or mixture and uses advised against

Restricted to professional users

Application of the substance / the mixture: Spray adhesive

1.3. Details of the supplier of the safety data sheet

Thermaflex Izolacji sp. z o.o.
ul. Przemysłowa 6, Poland
58-130 Żarów
Tel. +48 74 85-89-666
Fax. +48 74 85-89-667
Email: biuro@thermaflex.com
Internet: www.thermaflex.com

1.4. Emergency telephone number

Thermaflex Izolacji sp. z o.o. +48 661 111 131 (the line available 8:00 a.m. – 4 p.m.)

General emergency number 112 (open 24 hours a day)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Liq. 2	*H225 Highly flammable liquid and vapour.*
Skin Irrit. 2	*H315 Causes skin irritation.*
Eye Irrit. 2	*H319 Causes serious eye irritation.*
STOT SE 3	*H336 May cause drowsiness or dizziness.*
Aquatic Chronic 2	*H411 Toxic to aquatic life with long lasting effects.*

2.2. Label elements

GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms

GHS02 GHS07 GHS09

Signal word Danger

Hazard-determining components of labelling:

Hydrocarbons, C6, iso-alkanes, <5% n-hexane, cyclohexane, ethyl acetate, acetone

Hazard statements

H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210	*Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking*
P261	*Avoid breathing mist/vapour/spray.*
P273	*Avoid release to the environment.*
P280	*Wear protective gloves*
P370+P378	*In case of fire: Use CO2, powder or water spray to extinguish.*
P403+P235	*Store in a well-ventilated place. Keep cool.*

Additional information:

Contains Rosin. May produce an allergic reaction. Restricted to professional users.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Section 3: Composition/ information on ingredients

3.1. Mixtures

Description: Mixture of components as listed below. The percentage composition adds up to a total of 100% with non-hazardous ingredients.

Dangerous components:		
	hydrocarbons, C6, isoalkanes, <5% n-hexane *Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3,H336*	***≥25-<30%***
CAS: 110-82-7 *EINECS: 203-806-2* *Reg.nr.: 01-2119484651-34-xxxx*	*cylloheksane* *Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H332, Skin Irrit. 2, H315;STOT SE 3, H336*	***≥10-<25%***
CAS: 141-78-6 *EINECS: 205-500-4* *Reg.nr.: 01-2119475103-46-xxxx*	*ethyl acetate* *Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3,H336, EUH066*	***≥10-<25%***
CAS: 67-64-1 *EINECS: 200-662-2* *Reg.nr.: 01-2119471330-49-xxxx*	*acetone* *Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3,H336, EUH066*	***<5,5%***
CAS: 51839-25-9 *EINECS: 257-467-0* *Reg.nr.: 01-2119474697-20-xxxx*	*basic zinc carbonate* *Aquatic Acute 1, H400; Aquatic Chronic 2, H411*	***<0,2%***
CAS: 8050-09-7 *EINECS: 232-475-7* *Reg.nr.: 01-2119480418-32-xxxx*	*Rosin* *Skin Sens. 1, H317*	***≥0,1-<0,2%***

Additional information:

Hydrocarbons, C6-, isoalkanes, <5% n-hexane is a mixture of: hexane (mixture of isomers), cyclopentane, n-hexane and pentane. For the wording of the listed hazard phrases refer to section 16.

Section 4: First aid measures

4.1. Description of first aid measures

General information:

Take affected persons out of danger area and lay down.

Remove any clothing soiled by the product.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

If symptoms persist, consult a doctor.

After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting. If symptoms persist consult doctor.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate attention and special treatment needed

No further relevant information available.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

CO_2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Hydrogen chloride (HCl)

Carbon monoxide and carbon dioxide

Metal oxide

5.3. Advice for firefighters

Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep people at a distance and stay on the windward side.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

6.2. Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7: Handling and storage

7.1. Precautions for safe handling

The usual precautionary measures are to be adhered to when handling chemicals.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Protect from frost.

Protect from heat and direct sunlight.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well-sealed receptacles.

7.3. Specific end use(s)

No further relevant information available.

Section 8: Exposure controls/ personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:		
110-82-7 cyclohexane		
WEL	*Short-term value: 1050 mg/m³, 300 ppm* *Long-term value: 350 mg/m³, 100 ppm*	
141-78-6 ethyl acetate		
WEL	*Short-term value: 1468mg/m³* *400 ppm* *Long-term value: 734 mg/m³* *200 ppm*	
67-64-1 acetone		
WEL	*Short-term value: 3620 mg/m³, 1500 ppm* *Long-term value: 1210 mg/m³, 500 ppm*	
· ***DNELs***		
hydrocarbons, C6, isoalkanes, <5% n-hexane		
Oral	*DNEL Consumer*	*1,301 mg/kg BW (Chronic effects; Systemic)*
Dermal	*DNEL Consumer*	*1,377 mg/kg BW (Chronic effects; Systemic)*
	DNEL Worker	*13,964 mg/kg BW (Chronic effects; Systemic)*
Inhalative	*DNEL Consumer*	*1,131 mg/m3 (Chronic effects; Systemic)*
	DNEL Worker	*5,306 mg/m3 (Chronic effects; Systemic)*
110-82-7 cyclohexane		
Dermal	*DNEL Worker*	*2,016 mg/kg BW (Chronic effects; Systemic)*
Inhalative	*DNEL Worker*	*700 mg/m3 (Acute effects; Local)*
		700 mg/m3 (Acute effects; Systemic)
		700 mg/m3 (Chronic effects; Local)
		700 mg/m3 (Chronic effects; Systemic)
141-78-6 ethyl acetate		
Oral	*DNEL Consumer*	*4.5 mg/kg BW (Chronic effects; Systemic)*
Dermal	*DNEL Consumer*	*37 mg/kg BW (Chronic effects; Systemic)*
	DNEL Worker	*63 mg/kg BW (Chronic effects; Systemic)*
Inhalative	*DNEL Consumer*	*734 mg/m3 (Acute effects; Local)*
		734 mg/m3 (Acute effects; Systemic)
		367 mg/m3 (Chronic effects; Local)
		367 mg/m3 (Chronic effects; Systemic)
	DNEL Worker	*1,468 mg/m3 (Acute effects; Local)*
		1,468 mg/m3 (Acute effects; Systemic)
		734 mg/m3 (Acute effects; Systemic)
		34 mg/m3 (Acute effects; Systemic)
67-64-1 acetone		
Oral	*DNEL Consumer*	*62 mg/kg BW (Chronic effects; Systemic)*
Dermal	*DNEL Consumer*	*62 mg/kg BW (Chronic effects; Systemic)*
	DNEL Worker	*186 mg/kg BW (Chronic effects; Systemic)*
Inhalative	*DNEL Consumer*	*200 mg/m3 (Chronic effects; Systemic)*
	DNEL Worker	*2,420 mg/m3 (Acute effects; Local)*
		1,210 mg/m3 (Acute effects: Systemic)
· ***PNECs***		
110-82-7 cyclohexane		

PNEC Aquatic ecosystem *PNEC Aquatic ecosystem PNEC* *Terrestrial ecosystem*	*0.207 mg/l (Fresh water)* *0.207 mg/l (Marine water)* *3.267 mg/kg (Fresh water sediment)* *3.267 mg/kg (Marine water sediment)* *2.99 mg/kg (Soil)*
141-78-6 ethyl acetate	
PNEC Aquatic ecosystem *PNEC Aquatic ecosystem*	*0.26 mg/l (Fresh water)* *0.026 mg/l (Marine water)* *650 mg/l (Sewage treatment)* *0.34 mg/kg (Fresh water sediment)* *0.034 mg/kg (Marine water sediment)*
67-64-1 acetone	
PNEC Aquatic ecosystem *PNEC Aquatic ecosystem PNEC* *Terrestrial ecosystem*	*10.6 mg/l (Fresh water)* *21.5 mg/l (Intermittent release)* *1.06 mg/l (Marine water)* *100 mg/l (Sewage treatment)* *30.4 mg/kg (Fresh water sediment)* *3.04 mg/kg (Marine water sediment)* *29.5 mg/kg (Soil)*

Additional information*:* The lists valid during the making were used as basis

8.2. Exposure controls

Appropriate engineering controls No further data, see item 7

Individual protection measure, such as personal protective equipment.

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Wash hand before breaks and at the end of work.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin
Remove any clothing soiled by the product.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.
Avoid breathing mist/vapour/spray.
Recommended filter: filter AX

Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves not only depend on the material, but also on further
marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Neoprene gloves

Eye protection:

Safety glasses

Body protection:

Protective work clothing

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General information

Phisical state ***Colour***	Fluid Various colours
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	>48 °C
Flammability	*Highly flammable*
Lower and upper explosion limit ***Lower :*** ***Upper :***	 1 Vol % 11,5 Vol %
Flash point	-17 °C
Ignition temperature	No data available
pH	Not applicable
Viscosity ***Dynamit at 20 °C***	 250 mPas
Solubility ***Water:***	 Not miscible or difficult to mix
Partition coefficient n-octanol/water (log value)	No data available
Vapour pressure at 20 ° C	250 hPa
Density and/or relative density ***Density at 20 ° C*** ***Vapour density***	 0,8 g/cm^3 No data available

9.2. Other information

Appearance	
Form	Fluid
Important information on protection of health and environment and on safety	
Auto-ignition temperature	Product is not selfigniting
Explosive properties	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Solvent separation test	
Solvent content	
Organic solvents	80%
Water	0,4 %
VOC (EC)	664,1 g/l
	80,0 %
Solids content	19,6 %
Change in condition	
Softening point/range	
Oxidising properties	No data available
Evaporation rate	No data available
Information with regard to physical hazards classes	
· ***Explosives***	Void
· ***Flammable gases***	Void
· ***Aerosols***	Void
· ***Oxidising gases***	Void
· ***Gases under pressure***	Void
· ***Flammable liquids***	Highly flammable liquid and vapour
· ***Flammable solids***	Void
· ***Self-reactive substances and mixtures***	Void
· ***Pyrophoric liquids***	Void
· ***Pyrophoric solids***	Void
· ***Self-heating substances and mixutres***	Void
· ***Substances and mixtures which emit flammable gases in contact with water***	Void
· ***Oxidising liquids***	Void
· ***Oxidising soids***	Void
· ***Organic Peroxides***	Void
· ***Corrosive to metals***	Void
· ***Densensitised explosives***	Void
· ***Additional information***	The physical data presented above are typical values and should not be construed as a specification.
·	

Section 10: Stability and reactivity

10.1. Reactivity

No further relevant information available

10.2. Chemical stability

Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications

10.3. Possibility of hazardous reactions

Decomposes with water, acids and alkalis.

Violent reactions with strong alkalis and oxidizing agents.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Hydrogen chloride (HCl)

Carbon monoxide (CO) and carbon dioxide (CO_2).

Section 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC)

Acute toxicity: Based on available data, the classification criteria are not met.

· ***LD/LC50 values relevant for classification:***		
ATE (Acute Toxicity Estimates)		
Oral *Inhalative*	*LD50* *LC50/4h*	*5,663 mg/kg (mouse)* *61 mg/l*
hydrocarbons, C6, isoalkanes, <5% n-hexane		
Oral *Dermal* *Inhalative*	*LD50* *LD50* *LC50/4 h*	*> 5000 mg/kg (rat)* *> 3000 mg/kg (rabbit)* *> 20 mg/l (rat)*
110-82-7 cyclohexane		
Oral *Dermal* *Inhalative*	*LD50* *LD50* *LC50/4 h*	*1300 mg/kg (mouse)* *> 5000 mg/kg (rat)* *> 2000 mg/kg (rabbit)* *14 mg/l (rat)*
141-78-6 ethyl acetate		
Oral *Dermal* *Inhlative*	*LD50* *LD50* *LC50/4 h*	*4,100 mg/kg (mouse)* *10,170 mg/kg (rat)* *4,935 mg/kg (rabbit)* *> 20000 mg/kg (rabbit)* *31 mg/l (mouse)* *> 50 mg/l (rat)*
67-64-1 acetone		
Oral *Dermal* *Inhalative*	*LD50* *LD50* *LC50/4 h*	*>3000 mg/kg (mouse)* *>5,000 mg/kg (rat)* *>5,000 mg/kg (rat)* *>15,000 mg/kg (rabbit)* *76 mg/l (rat)*

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: Contains Rosin. May produce an allergic reaction.

STOT – single exposure: May cause drowsiness or dizziness

Information on other hazards

Endocrine disrupting properties			
98-54-4	4-tert-butylphenol	List I,II	0,03%

Section 12: Ecological information

12.1. Toxicity

Aquatic toxicity:	
110-82-7 cyclohexane	
EC50 (48h)	0.9 mg/l (daphnia)
141-78-6 ethyl acetate	
EC50	> 164 mg/kg (daphnia)
67-64-1 acetone	
EC50	39 mg/kg (daphnia)

12.2. Persistence and degradability

No further relevant information available.

12.3. Bio accumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable

vPvB*:* Not applicable

12.6. Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

12.7. Other adverse effects

Remark: Toxic for fish

12.8. Additional ecological information

General notes

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow products to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leas into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

European waste catalogue	
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations

Section 14: Transport information

14.1. UN number or ID number

ADR/RID/ADN, IMDG, IATA UNI1133

14.2. UN proper shipping name

ADR/RID/ADN 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS,, special provision 640D

IMDG ADHESIVES (HEXANES, CYCLOHEXANE), MARINE POLLUTANT

IATA ADHESIVES

14.3. Transport hazard class(es)

ADR/RID/ADN

Class 3 (F1) Flammable liquids

Label 3

IMDG

Class 3 Flammable liquids

Label 3

IATA

Class 3 Flammable liquids

Label 3

14.4. Packing group	
ADR/RID/ADN, IMDG, IATA	II
14.5. Environmental hazards	Product contains environmentally hazardous substances : cyclohexane, hydrocarbons,Naphta (petroleum), hydrotreated light
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR/RID/ADN)):	Symbol (fish and tree)
14.6. Special precaustions for use	Warning: Flammable liquids
Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-D
Stowage Category	B

14.7 Maritime transport in bulk according to IMO	Not applicable
Transport/Additional information:	
ADR/RID/ADN	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code:	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1133 ADHESIVES, 3, II, ENVIRONMENTALLY HAZARDOUS

Section 15: Regulatory information

15.1. Registration status

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tons) for the application of lower-tier requirements

200 t

Qualifying quantity (tons) for the application of upper-tier requirements

500 t

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

Section 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

Contact:

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Abbreviations and acronyms:

ADR	*Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*
IMDG	*International Maritime Code for Dangerous Goods*
IATA	*International Air Transport Association*
EINECS	*European Inventory of Existing Commercial Chemical Substances*
ELINCS	*European List of Notified Chemical Substances*
CAS	*Chemical Abstracts Service (division of the American Chemical Society)*
VOC	*Volatile Organic Compounds (USA, EU)*
DNEL	*Derived No-Effect Level (REACH)*
PNEC	*Predicted No-Effect Concentration (REACH)*
LC50	*Lethal concentration at 50%*
LD50	*Lethal dose at 50%*
PBT	*Persistent, Bio accumulative and Toxic*
SVHC	*Substances of Very High Concern*
vPvB	*very Persistent and very Bio accumulative*
Flam. Liq. 2	*Flammable liquids, Hazard Category 2*
Skin Corr. 2	*Skin corrosion/ irritation, Hazard Category 2*
Eye Irrit. 2	*Serious eye damage/ eye irritation, Hazard Category 2*
Aqu. Chronic 2	*Hazardous to the aquatic environment (long-term), Hazard Category 2*
Flam. Liq. 2	*Flammable liquids – Category 2*
Acute Tox. 4	*Acute toxicity – Category 4*
Skin Irrit. 2	*Skin corrosion/irritation – Category 2*
Eye Irrit. 2	*Serious eye damage/eye irritation – Category 2*
Skin Sens. 1	*Skin sensitation– Category 1*
STOT SE 3	*Specific target organ toxicity (single exposure) – Category 3*
Asp. Tox. 1	*Aspiration hazard – Category 1*

Aquatic Acute 1 Hazardous to the aquatic environment – acute aquatic hazard – Category 1

Aquatic Chronic 1 Hazardous to the aquatic environment – long- term aquatic hazard – Category 1

Aquatic Chronic 2 Hazardous to the aquatic environment – long- term aquatic hazard – Category 2